U.S. Application No.: 09/644,984

AMENDMENT B Docket: 1003.010

IN THE CLAIMS

This listing of Claims will replace all prior versions and listings of Claims in the application:

Claims 1-25 (Cancelled)

26. (Currently amended) A method to treat signs of aging of the skin for treating age-associated signs of the skin, the method comprising:

administering to a subject in need of a treatment for having ageassociated signs of aging of the skin, an effective amount of a composition comprising as an active ingredient, one or more rhamnolipids of Formula I:

$$HO$$
 O
 CH
 CH_2
 C
 CH_2
 C
 R_2

wherein R^1 = H, unsubstituted α -L-rhamnopyranosyl, α .-L-rhamnopyranosyl substituted at the 2 position with a group of formula -O-C (=0) $-CH=CH-R_5$, or -O-C (=0) $-CH=CH-R_5$;

 $R^2 = H$, lower alkyl, $-CHR_4-CH_2-COOH$ or $-CHR_4-CH_2-COOR_6$;

 $R^3 = -(CH_2)_x - CH_3$, wherein x = 4-19;

 $R^4 = -(CH_2)_v - CH_3$, wherein y = 1-19;

 $R^5 = (CH_2)_z - CH_3$, wherein z = 1-12; and

U.S. Application No.: 09/644,984

AMENDMENT B Docket: 1003.010

 $R^6 = lower alkyl$

thereby wherein the compound of formula I promoting promotes reepithelization of the skin and thereby treating age-associated signs of aging of the skin.

27. (Previously presented) The method as claimed in claim 26, wherein said rhamnolipid of Formula 1 is α -L-rhamnopyranosyl-(1,2)- α -L-rhamnopyranosyl)-3-hydroxydecanoyl-3-hydroxydecanoic acid having the following formula:

$$HO$$
 O
 CH
 CH_2
 C
 CH_3
 CH_3
 CH_3
 CH_3
 CH_3
 CH_3
 CH_3
 CH_3

28. (Previously presented) The method as claimed in claim 26, wherein the one or more rhamnolipids of Formula 1 are selected from the group consisting of compounds of Formula 1 wherein:

 $R^1 = -O-C(=O)-CH = CH-R_5$, $R^2 = -CHR_4-CH_2$ -COOH, $R^3 = -(CH_2)_6-CH_3$, $R^4 = -(CH_2)_2-CH_3$, and $R^5 = -(CH_2)_6-CH_3$;

 $R^1=\alpha-L$ -rhamnopyranosyl substituted at the 2-position by -O-C(=O)-CH = CH-R⁵, $R^2=-CHR^4-CH_2-COOCH_3$, $R^3=(CH_2)_6-CH_3$, $R^4=-(CH_2)_6-CH_3$, and $R^5=-(CH_2)_6-CH_3$;

U.S. Application No.: 09/644,984

AMENDMENT B

Docket: 1003.010

 $R^1 = -O-C(=O)-CH = CH-R_5$, $R^2 = -CHR_4-CH_2 -COOCH_3$, $R^3 = -(CH_2)_6-CH_3$, $R^4 = -(CH_2)_2-CH_3$, and $R^5 = -(CH_2)_6-CH_3$; and

 $\rm R^1=~\alpha-L-rhamnopyranosyl$ substituted at the 2-position by -O-C(=O)-CH=CH-R⁵, $\rm R^2=-CHR^4-CH_2-COOCH_3$, $\rm R^3=-(CH_2)_6-CH_3$, $\rm R^4=-(CH_2)_6-CH_3$, and $\rm R^5=-(CH_2)_6-CH_3$.